VAGNER, V.V.

Restrictive semigroups. Izv.vys.ucheb.zav.; mat. no.6:19-27 '62. (MIRA 15:12)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.

(Groups, Theory of)

VAGNER, V. V.

"Generalized groups of particl transformations"

report submitted at the Intl Conf of Mathematics, Stockholm, Sweden, 15-22 Aug 62

VAGNER, V.V.; LOPSHITS, A.M.

IAkov Semenovich Dubnov; obituary. Trudy Sem.po vekt.i tenz.anal. no.11:3-17 '61. (MIRA 15:3)
(Dubnov, IAkov Semenovich, 1887-1957)

S/044/62/000/004/007/099
C111/C444

AUTHOR: Vagner, V. V.

TITLE: Variation theory as field theory of the central semi-cones

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 69, abstract 4A422. ("Nauchn. yezhegodnik. Saratovsk. un-t. Mekhan.-matem. fak., 1955". Saratov, 1959, 27-34)

TEXT: Let in X_n a differential m-pseudometric be given, i. e. let a unique binary relation $f \subset E_n(X_n) \times R$ between the points of the fibred space $E_n(X_n)$ and the real numbers be given to which there corresponds in the fibred space $E_n \times R(X_n)$ which is in one-to-one correspondence to the space $E_n(X_n) \times R$ in a natural way, the central semi-conic m-secant surface $K_{(n+1)+m}$ i. e. an m-secant surface for which the intersections $K_{(n+1)+m} \cap E_n \times R(p)$ for all points $p \in \beta(K_{(n+1)+m})$ are the central m-semicones K_m, where β is the canonical mapping of $E_n \times R(X_n)$ on X_n. Let

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$$x^{\alpha} = l^{\alpha}(\xi^{\lambda}, \eta^{a}), \quad x = L(\xi^{\lambda}, \eta^{a})$$

be the coordinate equations of $K_{(n+1)+m}$. The first n equations define the central semiconic m-secant surface $pr_1 \mathcal{S}$ in $E_n(X_n)$, while the function L gives an expression for the pseudomodulus of the measurable vector $x \in pr_1 K_m$ in the tangential $E_n(p(\xi^{\lambda}))$ in its homogeneous curvilinear coordinates η^{α}.

An oriented curve C in X_n is called measurable with respect to the given m-pseudometric $\mathcal{S}$, if its positive tangential semi straight lines belong to $pr_1 \mathcal{S}$. If the measurable curve C is defined by the equations

$$\xi^{\alpha} = \xi^{\alpha}(t) \quad (t_1 \leq t \leq t_2) \qquad (1)$$

and if $\eta^{a} = \eta^{a}(t)$ is the field of its contact vectors, then the scalar

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$$\int_{t_1}^{t_2} L(\lambda(t), a(t))dt$$

is an integral invariant which is called a pseudoarc-length. To every measurable curve C in X_n with the equations (1) in the (n+1) space X_n+R (Cartesian product of X_n and the numerical line R) one makes correspond a curve *C, having the equations

$$\xi = \xi(t), \quad \eta = \int_{t_1}^{t_2} L(\xi^{\lambda}(t), \xi^{a}(t))\, dt$$

If *C is anormal, then C is geodetic (in this article the notion of an anormal curve is defined by aid of the there introduced binary relation. of the variation of a curve).

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Variation theory as field theory ...

It is proved: In order a measurable curve to possess a weakly extremal pseudoarc-length, it is necessary that it be geodetic. It is stated that the variation problem of Lagrange on the conditional extremum may be also considered as the problem of the determination of curves with extremal pseudolengths in X_m in a differential m-pseudometric.

[Abstracter's note: Complete translation.]

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VAGNER, V.V.

Transformative semigroups. Izv. vys. ucheb. zav.; mat. no.4:36-48 '60. (MIRA 13:10)

1. Saratovskiy gosudarstvennyy universitet im. N.G. Chernyshevskogo.
(Groups, Theory of)

85497

S/140/60/000/004/010/023 XX
C111/C222

11.2000

AUTHOR: Vagner, V.V.

TITLE: Transformative Semigroups

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960, No. 4, pp. 36 - 48

TEXT: The author uses notations and notions of (Ref. 1).
A semigroup is called transformative if in it, beside of the fundamental binary operation o which here is understood as a ternary relation between the elements of the semigroup, two binary relations are given: quasiorder χ and quasiequivalence ξ satisfying the condition that there exists an eigenrepresentation of the semigroup with the aid of partial transformations of a set, for which χ can be represented as an enclosure relation of the first projections of the partial transformations and ξ as a union relation of the partial transformations.
In the present paper the author proposes an axiomatic foundation of the theory of transformative semigroups, where these are understood as ordered systems (G, o, χ, ξ) where the set of the elements of the semigroup and o, χ, ξ are the mentioned relations. Eight theorems are given, the

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assertions of which are partially already contained in (Ref. 1) (theorems 2 and 5) or are known from the general theory (theorem 6). As an exceptional case the author considers the representation of semigroups with the aid of set transformations. It is pointed out that the axiomatic theory of representable ordered semigroups can be obtained immediately from the theory of transformative semigroups.
There is 1 Soviet reference.
[Abstracter's note : (Ref. 1) is a paper of V.V. Vagner in Matematicheskiy sbornik, 1956, Vol. 38, pp. 203 - 240]

ASSOCIATION: Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo(Saratov State University imeni N.G. Chernyshevskiy)

SUBMITTED: January 28, 1960

Card 2/2

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C111/C222

16.2000

AUTHOR: Vagner, V.V. (Saratov)

TITLE: Semigroups Associated With a Generalized Heap

PERIODICAL: Matematicheskiy sbornik, 1960, Vol. 52, No. 1, pp.597-628

TEXT: The author uses notations and notions of (Ref. 4,5). The author considers the binary operative (G, o), i.e. the set G together with the ternary relation $o \subset G \times G \times G$ which determines a binary algebraic operation defined everywhere. Let in brief

(1) $o(g_1, g_2) = g_1 g_2$.

The following dual relations are defined :
1) right and left ideal relations τ_d and τ_s :

(3) $\tau_d = \underset{(g_1,g_2)}{C} \bigvee_g (g_1 g = g_2)$, $\tau_s = \underset{(g_1,g_2)}{C} \bigvee_g (g g_1 = g_2)$

2) right and left canonical equivalence relations ε_d, ε_s :

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(5) $$\varepsilon_d = \underset{(g_1,g_2)}{C} \bigwedge_{g} (gg_1 = gg_2) \quad , \varepsilon_s = \underset{(g_1,g_2)}{C} \bigwedge_{g} (g_1 g = g_2 g)$$

3) right and left absorption relations α_d, α_s:

(6) $$\alpha_d = \underset{(g_1,g_2)}{C} (g_1 g_2 = g_1) \quad , \alpha_s = \underset{g_1,g_2)}{C} (g_2 g_1 = g_1)$$

The absorption relation is denoted with

(7) $$\alpha = \alpha_d \cap \alpha_s = \underset{(g_1,g_2)}{C} (g_1 g_2 = g_2 g_1 = g_1)$$

The invariant, symmetric, reflective, binary relation being dual to itself

(8) $$\zeta = \underset{(g_1,g_2)}{C} (g_1 g_2 = g_2 g_1) = pr_{12} (o \cap o^*)$$

is called the commutativity relation, where o^* is defined by

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(4) $o^{*}(g_1, g_2) = o(g_2, g_1)$

and $pr_{12}\, o = G \times G$.

Let the considered operative (G, o) be a semigroup, i.e. let o be associative. The factor semigroups of (G, o) with respect to stable ε_d (resp. ε_s) are called right (resp. left) canonical factor semigroups. 1b

Theorem 1 : For every semigroup, α_d , α_s and α are transitive binary relations.

A semigroup is called idempotent if all elements are idempotent.

Theorem 2 : For an idempotent semigroup, α_d and α_s are quasiordering relations and α is an ordering relation.

Theorem 3 : For idempotent semigroups it holds

(15) $\tau_d = \bar{\alpha}^{-1}_s$, $\tau_s = \bar{\alpha}^{-1}_d$.

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Theorem 4 : If $\mathcal{E}$ is a stable equivalence relation between the elements of an idempotent semigroup, then the binary relation $\alpha_d \circ \mathcal{E}$ (resp. $\alpha_s \circ \mathcal{E}$) is the maximal canonical inverse image of the right (resp. left) relation of absorption of the factor semigroup of this semigroup with respect to $\mathcal{E}$.

Theorem 5 , Conclusion :
A semigroup is called pseudocommutative from the left (right) if its left (right) canonical factor semigroup is commutative.

Theorem 6 : For an idempotent semigroup (G, o) pseudocommutative from the right (left) it holds

(18) $\mathcal{E}_d = \alpha_d \cap \alpha_d^{-1}$ $\quad (\mathcal{E}_s = \alpha_s \cap \alpha_s^{-1})$

Theorem 7 : For an idempotent semigroup pseudocommutative from the right (left) it holds

(21) $\alpha_d = \alpha_s \circ (\alpha_d \cap \alpha_d^{-1})$ $\quad (\alpha_s = \alpha_d \circ (\alpha_s \cap \alpha_s^{-1}))$.

Theorems 8 and 9 are conclusions from the theorems 6 and 7 .

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The fact that for idempotent semigroups the absorption relation is an ordering relation, permits to use the theory of ordered sets in the theory of idempotent semigroups. Let (G, ω) be an ordered set, i.e. a set G with the ordering relation ω. Let g_1 be a minorant of g_2 and g_2 be a majorant of g_1 if

(25) $$g_1 \prec g_2 \leftrightarrow (g_1, g_2) \in \omega.$$

The subset η is called minorized (majorized) if it has a minorant (majorant) i.e. if $\tilde{\omega}^{-1}(\eta) \neq \phi$ $(\hat{\omega}(\eta) \neq \phi)$. The relation $\omega \circ \tilde{\omega}^{-1}$ $(\tilde{\omega}^{-1} \circ \omega)$ is called minorizing (majorizing) relation. The subset η is called a minorant (majorant) raster if each of its pairs of elements has a minorant (majorant) belonging to this subset.

Theorem 10 : In order that all maximal connected subsets of an ordered set (G, ω) are minorant (majorant) rasters it is necessary and sufficient that

(31) $\tilde{\omega}^{-1} \circ \omega \subset \omega \circ \tilde{\omega}^{-1}$ (resp. $\omega \circ \tilde{\omega}^{-1} \subset \tilde{\omega}^{-1} \circ \omega$).

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Now every idempotent semigroup (G, o) is considered as a set ordered with the aid of the absorption relation α. It is stated that the theory of commutative idempotent semigroups in essential is equivalent to the theory of minorant semilattices.

Theorem 12 : For every idempotent semigroup it holds

(38) $$\varsigma \subset \alpha \circ \overset{-1}{\alpha} .$$

Theorem 13 : For an idempotent semigroup pseudocommutative from the right (left) it holds

(39) $$\overset{-1}{\alpha} \circ \alpha \subset \varsigma .$$

Theorem 14 : For an idempotent semigroup pseudocommutative from the right (left) which is ordered with the aid of the absorption relation, all maximal connected subsets are minimal raster.

The author considers the ternary operative (K, o), i.e. a set K with the quaternary relation $o \subset K \times K \times K \times K$ which explains an everywhere defined ternary algebraic operation. Let in brief

(41) $$o(k_1, k_2, k_3) = [k_1 k_2 k_3]$$

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Three binary algebraic operations o_1, o_2, o_3 are associated with the ternary algebraic operation o and they are denoted with $\triangleright$, $\triangleleft$, ∇ :

(44) $o_1(k_1, k_2) = k_1 \triangleright k_2 = [k_1 k_1 k_2]$, $o_2(k_1, k_2) = k_1 \triangleleft k_2 = [k_1 k_2 k_2]$;

$o_3(k_1, k_2) = k_1 \nabla k_2 = [k_1 k_2 k_1]$

The three binary operatives (K, o_1), (K, o_2), (K, o_3) are denoted as the first, second and third associative binary operative of the ternary operative (K, o). The ternary operative (K, o) is called a semiheap if for arbitrary $k_1, \ldots, k_s$ it holds

(45) $[[k_1 k_2 k_3] k_4 k_5] = [k_1 [k_4 k_3 k_2] k_5] = [k_1 k_2 [k_3 k_4 k_5]]$.

The semiheap (K, o) is called a generalized heap if the operation o is idempotent and bicommutative.

Theorem 15 : For the generalized heap (K, o) the first (second) assiocated binary operative is the idempotent semigroup pseudocommutative from the

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left (right).
Theorem 16 : The absorption relations of the first and second associated semigroup of a generalized heap are identical.
After introducing numerous further definitions, the author proves further 12 theorems on the connection between a generalized heap and the semigroups associated with it. The proofs result in essential from the theorems 1 - 14. The theorems 25 and 26 are already contained in (Ref. 6).
There are 6 references : 3 Soviet, 2 French and 1 German.
[Abstracter's note : (Ref. 4) concerns a paper of V.V. Vagner in Matematicheskiy sbornik, 1953, Vol. 32, pp. 545-632, (Ref. 5) is a paper of V.V. Vagner in Ukrainskiy matematicheskiy zhurnal, 1956, Vol. 8, pp. 235-252; (Ref.6) is a paper of V.V.Vagner in Ukrainskiy matematicheskiy zhurnal, 1959, Vol. 11, pp. 231-242] .

SUBMITTED: January 14, 1959

Card 8/8

TARASENKOVA, Ye.M.; ABAKUMOVA, Ye.A.; MARTYN, F.A.; VAGNER, V.V.

Catalytic transformations of n-heptane over manganese oxides.
Trudy LIEI no. 46:96-102 '63. (MIRA 17:6)

BURMISTROV, Ye.F., dots., red.; VAGNER, V.V., prof., red.; LIBER, A.Ye., prof., red.; FAL'KOVICH, S.V., prof., red.; PERSHIN, A.I., st. prepodavatel', red.; PERSOVA, V.M., red.

[Work of young scientists; mathematics issue] Trudy molodykh uchenykh; vypusk matematicheskii. Saratov, 1964. 121 p. (MIRA 18:8)

1. Saratov. Universitet. 2. Kafedra matematiki i statistiki Saratovskogo ekonomicheskogo instituta (for Pershin).

VAGNER, V.V.; GLUSKIN, L.M.; AYZENSHTAT, A.Ya.

Evgenii Sergeevich Liapin, 1914-; on his 50th birthday. Usp. mat. nauk 20 no.1:244-245 Ja-F '65. (MIRA 18:4)

VAGNER, V.V. (Saratov)

Shifts in a groupoid. Izv.vys.ucheb.zav.; mat. no.6: 37-47 '65. (MIRA 19:1)

1. Submitted May 27, 1965.

VAGNER, V.V. (Saratov)

Groupoid theory. Izv.vys.ucheb.zav.; mat. no.5:31-42 '65. (MIRA 18:10)

VAGNER, Ye.A.

Diagnosis and treatment of injuries of the pericardium and the heart. Khirurgiia, no.9:70-71 S '55. (MLRA 9:2)

1. Iz khirurgicheskogo otdeleniya Bereznikovskoy gorodskoy bol'nitsy (glavnyy khirurg goroda--kandidat meditsinskikh nauk A.P. Noskov)

(HEART, wounds and inj.
diag. & ther.)
(PERICARDIUM, wounds and inj.
same)
(WOUNDS AND INJURIES
heart & pericardium, diag. & ther)

VAGNER, YE. A.

VAGNER, YE. A.: "Surgical tactics in penetrating wounds of the chest under peacetime conditions." Molotov State Medical Inst. Molotov, 1956. (Dissertation for the Degree of Candidate in Medical Science.)

So: Knizhnaya letopis', No. 37, 1956. Moscow.

VAGNER, Ye.A., kand.med.nauk (Berezniki, Permskoy oblasti, ul. Demeneva, d.11, kv.17)

Surgical treatment of penetrating wounds of the chest in peacetime. Vest.khir. 83 no.9:89-95 S '59. (MIRA 13:2)

1. Iz khirurgicheskogo otdeleniya Bereznikovskoy gorodskoy bol'nitsy (glavnyy khirurg - kand.med.nauk A.P. Noskov) i kafedry obshchey khirurgii (zaveduyushchiy - prof. N.M. Stepanov) Permskogo meditsinskogo instituta.
(THORAX, wds. & inj.)

VAGNER, Ye.A.; TSUKANOV, V.I.

Our experience in the treatment of concussions of the brain. Khirurgiia 36 no.11:102-105 N '60. (MIRA 13:12)

1. Iz otdeleniya neotlozhnoy khirurgii i travmatologii (zav. - kand.med.nauk Ye.A. Vagner) oblastnoy bol'nitsy g. Berezniki Permskoy oblasti.

(BRAIN—CONCUSSION)

VAGNER, Yevgeniy Antonovich; DEKHTYAR', Ye.G., red.

[Surgical treatment of penetrating chest wounds in peace time] Khirurgicheskoe lechenie pronikaiushchikh ranenii grudi v mirnoe vremia. Moskva, Meditsina, 1964. 191 p. (MIRA 18:2)

YAGNOV, Ye.A., dotsent (g. Berezniki); [illegible], Ya.A. (g. Berezniki)

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Vest. khir. 93 no.9:138-142 S '64.

GOLOVLEV, Igor' Filippovich; MIKHEYEV, A.V., retsenzent; VAGNER-NEMCHINOV, A.A., spetsredaktor; MOROZOVA, I.I., redaktor; GOFLIB, E.M., tekhnicheskiyredaktor

[Whaling techniques] Tekhnika kitoboinogo promysla. [n.p.] Pishchepromizdat [1956] 110 p. (MLRA 10:1)
(Whaling)

ANDREYEV, Nikolay Nikiforovich; VAGNER-NEMCHINOV, A.A., spets. red.; KOSSOVA, O.N., red.; SOKOLOVA, I.A., tekhn. red.

[Manual on fishing implements, nets and equipment]Spravochnik po orudiiam lova, setesnastnym materialam i promyslovomu snariazheniiu. Moskva, Pishchepromizdat, 1962. 503 p. (MIRA 16:1)

(Fishing--Equipment and supplies)

PETROSYAN, Ye.A.; VAGNER-SAKHAROVA, M.P.; STARCHEUS, A.V.; VARGINA, A.K.

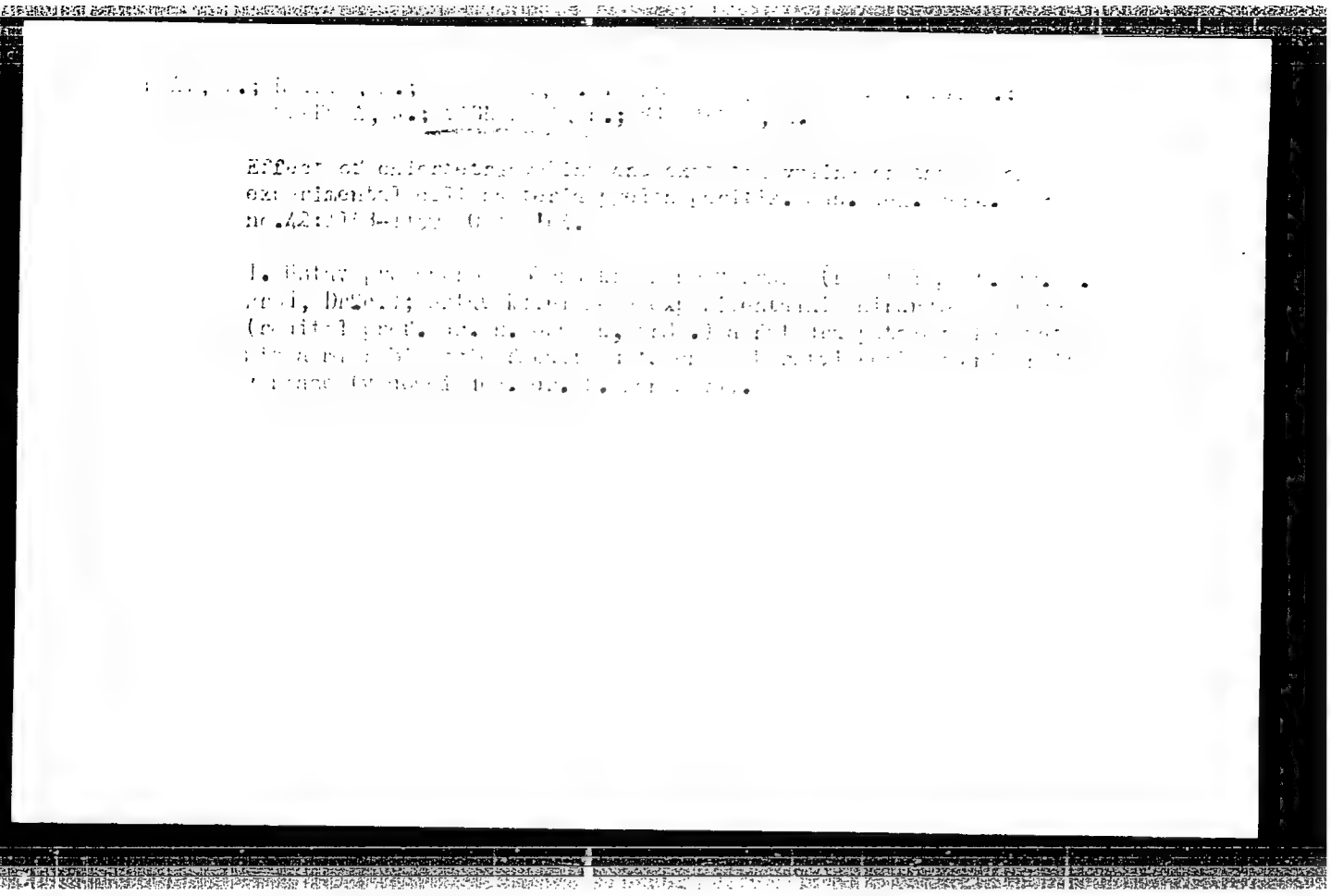
Production of sorbed diphtheria and tetanus anatoxin. Nauch. osn. proizv. bakt. prep. 10:107-117 '61. (MIRA 18:7)

1. Moskovskiy institut vaktsin i syvorotok im. Mechnikova.

PRAT, V.; HATALA, M.; BENESOVA, D.; Technicka asistence: DIVIS, Z.; DVORAKOVA, J.; VAGNEROVA, E.; VIDMAROVA, H.

Experimental contribution to the problem of "nephropathogenity" of some strains of E. coli. Cas. lek. cesk. 103 no.40:1097-1102 2 O '64.

1. Ustav pro choroby obehu krevniho v Praze (reditel prof. dr. J. Brod, DrSc.); Ustav klinicke a experimentalni chirurgie v Praze (reditel prof. dr. B. Spacek, DrSc.) a Katedra patologicke anatomie a mikrobiologie fakulty detskeho lekarstvi Karlovy University v Praze (vedouci prof. dr. V. Kubelka).



PRAT, V.; HEJL,Z.; DEJDAR, R. Technicka spoluprace: VAGNEROVA, E.; TROUSIL,V.

Our experiences with transfemoral acrtography by the Seldinger technic. Rozhl. chir. 43 no.12:812-817 D '64.

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HATALA, H.; [illegible], M; [illegible], V. Technicka spolupraca: KRIZOVA, K.; VAGNEROVA, E.

The use of TTC - a test for determining the significance of bacteriuria in pregnancy. Cas. lek. cesk. 104 no.8:221 26 F'65.

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel: prof. dr. B. Spacek, DrSc.); Ustav pro choroby obehu krevniho v Praze (reditel: prof. dr. J. Brod, DrSc.); a Zenske oddeleni Ustavu narodniho zdravi ONV v Praze 4, (reditel: UNZ MUDr. Z. Vaclavik).

PRAT, V.,(Praha-Krc, Budejovicka 800); HATALA, M.; BEER, O.; SRAMEK, L.; VAGNEROVA, E.; Laboratorni spoluprace: KREJCOVA, K.; CHRPOVA, V.

Bacteriuria in pregnancy and its relation to the maturity of infants. Cas. lek. Cesk. 104 no.48:1327-1328 3 D '65.

1. Ustav pro choroby obehu krevniho v Praze (reditel prof. dr. J. Brod, DrSc), Ustav klinicke a experimentalni chirurgie v Praze (reditel prof. dr. B. Spacek, DrSc) a Zenske oddeleni Ustavu narodniho zdravi Okresniho narodniho vyboru v Praze 4, (reditel MUDr. Z. Vaclavik).

HATALA, M.; PRAT, V.; ROSSMANN, P. Technicka asistence: DIVIS, Z.; DVORAKOVA, J.; VAGNEROVA, E.; VIDMAROVA, H.

Pathogenicity of different species of various serotypes of Escherichia coli in the kidneys and urinary tract of rabbits. Rozhl. chir. 44 no.5:326-333 My'65.

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel: prof. dr. B. Spacek, DrSc.); a Ustav pro choroby obehu krevniho v Praze (reditel: prof. dr. J. Brod. DrSc.).

VAGNEROVA, Kamila; MACURA, J.; CATSKA, Vlasta

Rhisosphere microflora of wheat. I. Composition and properties of bacterial flora during the first stages of wheat growth. II. Composition and properties of bacterial flora during the vegetation period of wheat. III. Fungal flora of wheat rizosphere. Folia microbiol 5 no.5:298-330 '60. (EEAI 10:4)

1. Department of Microbiology, Institute of Biology, Czechoslovak Academy of Sciences, Prague.
(Wheat) (Roots (Botany)) (Bacteria)
(Rhizosphere) (Fungi)

VAGNEROVA, Kamila; MANCURA, V.

Production and utilization of aminoacids by various species of rhizosphere bacteria. Folia microbiol. 7 no.1:55-60 '62.

1. Department of Soil Microbiology, Institute of Microbiology Czechoslovak Academy of Sciences, Prague 6.
(AMINO ACIDS metab) (BACTERIA metab)

VAGNEROVA, Kamila; VANCURA, Vlastimil; LASIK, Jaromir

Rhizosphere microflora of wheat. Pt. 4. Rost vyroba 9 no. 7/8:687-692 Jl-Ag '63.

1. Mikrobiologicky ustav, Ceskoslovenska akademie ved, oddeleni pudni mikrobiologie, Praha.

VAGO, A.

Complications and reaction in blood transfusion. Orv. hetil., Budap. 93 no.3:74-79 20 Jan 52. (CLML 21:5)

1. Doctor.

VAGO, E.

Hungarian Technical Abst.
Vol. 5 No. 4 1953

45. **The determination of the quantity of mullite in baked ceramic products** — *Mullit mennyiségének meghatározása égetett kerámiai termékekben* — J. Grofcsik and E. Vágó. (Building Materials — *Építőanyag* — Vol. 4, 1952, No 11–12, pp 211–215, 5 figs, 6 tabs)

Finding the optimal conditions for the formation of mullite, such as baking time, composition of the raw material, catalysts, etc, is very important in the manufacture of both refractories and ceramics. A rapid and accurate method for determining the mullite content of the finished products is therefore necessary. If the material to be examined is finely pulverized with 15% ammonium chloride it can be moulded with Canada balsam into 0.4–0.5 mm dia sticks for *Debye-Scherer* X ray tests. X-ray photos are subsequently made of the mixture with *CuK* rays, *Ni* filter, 32 kv and 15 ma, after which the intensity of the 1.50 Å and 0.955 Å lines can be determined photometrically. The intensity of the lines is proportional to the quantity of mullite present. This method yield very accurate results which are not influenced by the possible presence of sillimanite, [illegible] or corundum.

D. [illegible]

VAGO, E.

VAGO, E.; TAKÁCS, F.

"Use of Dolomite in the production of fireproof materials", [illegible],
([illegible], Vol. 6, No. 4, June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAI), LC, Vol. 4, No. 3,
March 1955, Uncl.

B

HUNGARY/Physical Chemistry. Crystals.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73044.

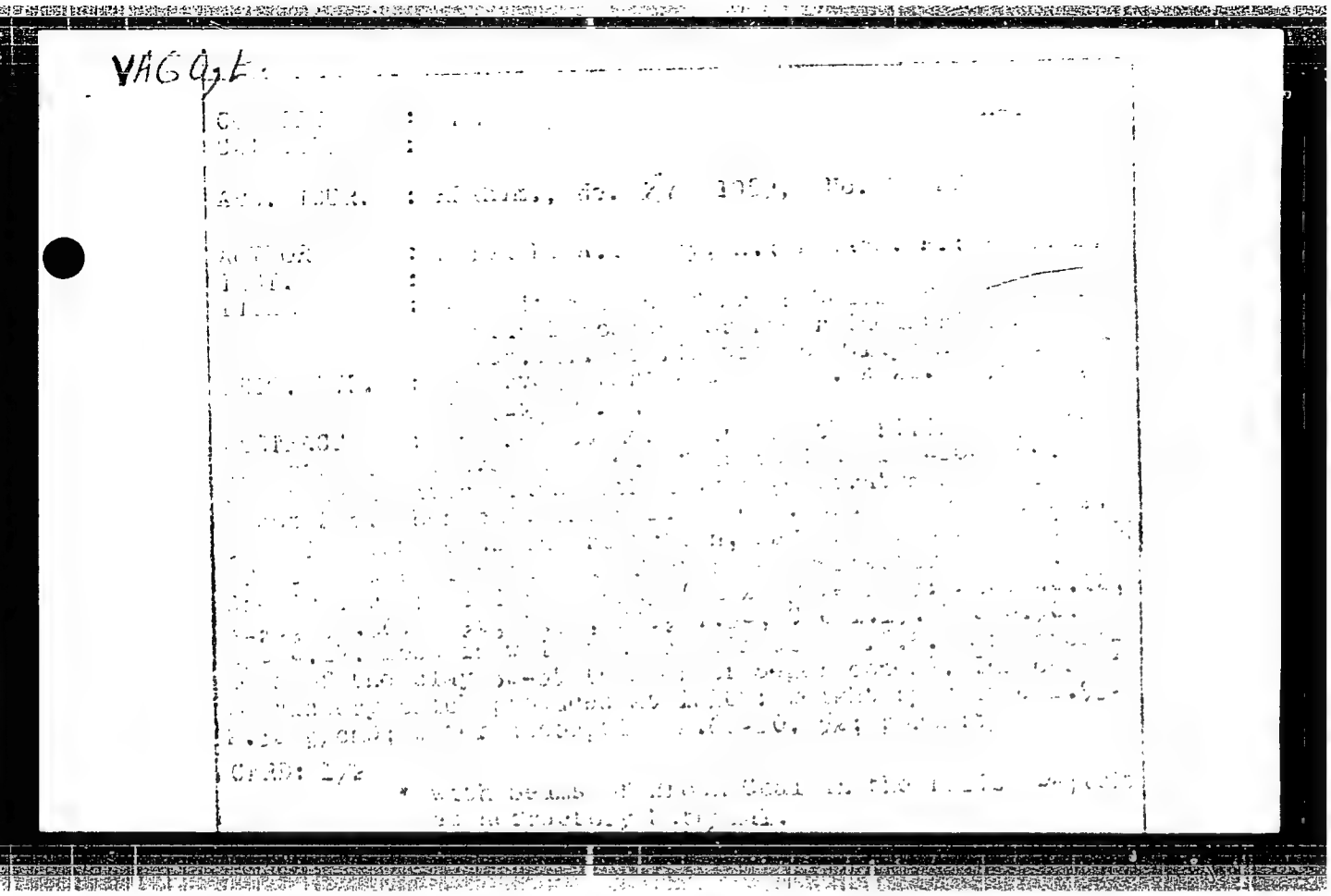
Author : J. Grofcsik, E. Vago.
Inst : Academy of Sciences of Hungary.
Title : Study of Polymorphous Conversions of Quartz Taking Tridymite Formation Into Consideration. (Preliminary Report.)

Orig Pub: Acta chim. Acad. sci. hung., 1957, 11, No 3-4, 357-358.

Abstract: It is shown that the addition of various metal oxides to quartz, when it is calcined, results in the formation of various modifications of quartz of various specific gravity (2.65 g per cub. cm in the case of low-temperature quartz and 2.3 g per cub.cm in the case of high-temperature modi-

Card : 1/2

fications). Besides the specific gravity determination, the process of polymorphous conversions of quartz was studied also roentgenographically, the pictures indicating the presence of christobalite and unaltered quartz but notridymite, although the specific gravity of the obtained calcined quartz glass was about 2.3 g per cub.cm. The x-ray data refute the generally accepted opinion that tridymite is the most important component of Dinas and prove that the methods recommended for the determination of the mineralogical composition of refractory Dinas are not applicable.



VAGUE

COUNTRY : [illegible]
CATEGORY :

A. J. JOUR. : [illegible]

AUTHOR :
[illegible] :
TITLE :

ORIG. PUB. :

ABSTRACT : [illegible]

CARD: 1/2

HUNGARY/Microbiology. General Microbiology. Physiology and Biochemistry. F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5480.

Author : Gal, D.; Vago, E.
Inst : Not given.
Title : Use of the Kinetic Isotopic Method for the Study of Transport of Substances by Bacteria.

Orig Pub: Agrokem. es talaj, 1957, 6, No 3, 223-232.

Abstract: The existence of the process of "active transport" of substance into a cell is demonstrated.

Card 1/1

16

FOLDI, M.; RUSZNYAK, I.; SZABO, G.; VAGO, E.

Antihyaluronidase titer of plasma in renal disease and in cardiac edema. Magy. belorv. arch. 4 no.2:66-69 1951.
(CIML 20:11)

1. Doctors. 2. First Internal Clinic (Director -- Dr. Istvan Rusznyak), Budapest Medical University.

MAGYAR, I.; VAGO, E.; DUBSKY, M.

4-5 Years follow-up of diseases condition after acute hepatitis. Orv. hetil. 94 no.18:488-490 3 May 1953. (CIML 24:5)

1. Doctors. 2. First Internal Clinic (Director -- Prof. Dr. Istvan Rusznyak), Budapest University.

Vago, E.

MAGYAR, I.; STEKKER, K.; VAGO, E.

Unusual course of hepatitis with intrahepatic obstruction. Orv. hetil. 94 no.46:1261-1267 15 Nov 1953. (CIML 25:5)

1. Doctors. 2. First Internal Clinic (Director — Prof. Dr. Istvan Rusznyak), Budapest Medical University.

MAGYAR, I.; RONA, Gy.; VAGO, E.

Heperglycemia and arteriosclerosis. Acta med. hung. Suppl. 6 no.1: 64-66 1954.

1. I Klinik fur innere Medizin der Medizinischen Universitat, Budapest.

(HYPERGLYCEMIA, exper.
in etiol. of arteriosclerosis in rabbits)
(ARTERIOSCLEROSIS, exper.
prod. by hyperglycemia in rabbits)

MAGYAR, Imre.; VAGO, Erzsebet.; MATE, Zoltan.

Carbohydrate and kalium metabolism. 3. Effect of glycogen contents of the liver and the muscles on the kalium metabolism. Kiserletes orvostud. 7 no.1:66-72 Jan 55.

1. Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja.
(POTASSIUM, metabolism, eff. of glycogen contents in liver & musc.)
(GLYCOGEN
liver & musc., eff. on potassium metab.)
(LIVER, metabolism
potassium, eff. of glycogen contents)
(MUSCLES,
glycogen in, eff. on potassium metab.)

MAGYAR, Imre.; VAGO, Erzsebet.; MATE, Zoltan.

Carbohydrate and kalium metabolism. 4. Levulose and kalium.
Kiserletes orvostud. 7 no.1:72-77 Jan 55.

1. Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja.
(FRUCTOSE, effects
on liver metab., relation to potassium)
(POTASSIUM, effects
on liver metab., relation to fructose)

MAGYAR, I.,; ROHA, Gy.,; VAGO, M.

Experimental studies on the pathogenesis of diabetic angiopathy.
Acta med. hung. 8 no.1:37-59 1955.

1. 1-st department of medicine and 1-st Institute of Pathological Anatomy University Medical School, Budapest.
(DIABETES MELLITUS, experimental,
causing arteriosclerosis)
(ARTERIOSCLEROSIS, experimental,
caused by diabetes mellitus)

VAGO, E.

HUNGARY/Pharmacology and Toxicology. Toxicology. V

Abs Jour: Ref Zhur-Biol., No 19, 1958, 90027.

Author : Vago, E.; Magyar, I.
Inst : Hungarian Academy of Sciences.
Title : Relationship Between Carbohydrate and Potassium Metabolism in the Liver of Dogs in Carbon Tetrachloride Poisoning.

Orig Pub: Acta physiol. Acad. Sci. hung., 1956, 9, Suppl. 37-38.

Abstract: It was demonstrated previously that a change in serum K values, following administration of sugars, is very instructive as to the status of the glycogenic and glycogenolytic functions of the liver and muscles. Experiments were carried out on dogs poisoned with carbon tetrachloride (CCl_4), and also ...on

Card : 1/3

Abs Jour: Ref Zhur-Biol., No 19, 1958, 90027.

levulose, which is transformed into glycogen only in the liver, but not in the muscles. Following introduction of dextrose into the intestines of dogs, no accumulation of glycogen was observed in the poisoned liver, and the K level was higher in the blood of the hepatic veins than in the portal veins. In the muscles, glycogen was synthetized under these conditions and the K value was lower in the peripheral veins than in the arteries. Following intravenous administration of dextrose, when it first reaches the muscles and then the liver, there is so much K retained in the muscles, that its level decreases in the peripheral blood although to a lesser extent than in normal animals under identical conditions (CCl_4 depresses glycogen metabolism

in the muscles). After administration of levulose, the poisoned liver synthetizes glycogen better than following administration of dextrose. K is also retained in the moderately damaged liver, although hypokalemia is compensated by passage of K from the muscles. No glycogen synthesis or K retention occurrs in the liver or muscles in severe liver damage. Administration of galactose, as well as of glucose, causes hypokalemia. The glycogenic function of the liver can be estimated when dextrose is administered orally (and not intravenously) by the serum K level; the lowering of the K level means that the liver synthetizes glycogen, absence of changes in the K values signifies suppression of this synthesis. -- A.G. Brusilovskaya.

MAGYAR, Imre, dr.; VAGO, Erzsebet, dr.; JELLINEK, Harry, dr.

Carbohydrate metabolism and potassium. V. Carbohydrate metabolism and potassium in liver disease. Magy. belorv. arch. 9 no.4:119-123 Aug 56.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajanak (igazgato: Rusznyak, Istvan, dr.; egyetemi tanar) kozlemenye.

(LIVER, metab.
potassium, eff. of sugars in exper. lesions induced by carbontetrachloride in dogs (Hun))
(CARBOHYDRATES, eff.
sugars, on liver potassium content in exper. liver lesions induced by carbontetrachloride in dogs (Hun))
(POTASSIUM, metab.
liver, eff. of sugars in exper. liver lesions induced by carbontetrachloride in dogs (Hun))

VAGO, E.

HUNGARY/General Problems of Pathology - Tumors. T-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3230

Author : Horanyi, M., Vago, E.
Inst : -
Title : Positive Thorn Test in Gastric Carcinoma Accompanied by Eosinophilic Leukemoid Reaction.

Orig Pub : Orv. Hetilap, 1956, 97, No 22, 611-612.

Abstract : An eosinophilic leukemoid reaction (22,000 WBD/1 cu mm; 54% eosinophils) was observed in a 76 year-old patient with a gastric carcinoma. In the bone marrow as well, eosinophils predominated (50-60%); there were 2-3% myeloblasts. Following administration of 25 mg of ACTH the number of eosinophils was decreased by 61%.

Card 1/1

SZOLNOKI, J.; VAGO, E.T.

Decomposition and humification in the soil of straw marked with isotope C^{14}. Acta agronom Hung 9 no.3/4:407-414 '59. (EEAI 9:7)

1. Bodenbiologische Gruppe des Forschunginstituts fur Bodenkunde and Agrikulturchemie der Ungarischen Akademie der Wissenschaften, Budapest.
(Hungary--Straw) (Radioisotopes) (Carbon)

HUNG.

V 3421. Vágó, F., Electric spark machining. (In Hungarian.) *Gép* 7, 1, 11–14 (Jan. 1955)

Author assumes that electric-spark material cutting can be regarded as a thermal process, the amount of material separated by the unit of energy depending on the quantity of heat needed for smelting or evaporizing the material and on the value of thermal conductivity. The amount separated from a certain material depends—other data of the circuit being unaltered—on the charging coefficient of the condenser.

At first, solenoids, and later, electrodynamic control gear have been used by the author; the latter one worked well.

The spark cutting machine at the Laboratory of the K. Gottwald, former "Ganz" Electric Co., has been constructed with electrodynamic control, and every grade of machining can be switched on either directly or through a magnet switch by hand control. The accuracy of the tools produced with the spark cutting machine is 0.01 mm. Form fidelity is obtained by small output, surface finish by the use of small-capacity condensers.

Machining of tungsten carbide steel can be accomplished—the separation of material being 0.5–1.0 mm^3/min—with a surface finish of $h_{max} \approx 1$ micron.

Author claims that this procedure is also used with excellent results in a special large-scale production.

From author's summary by A. Lenkei, Hungary

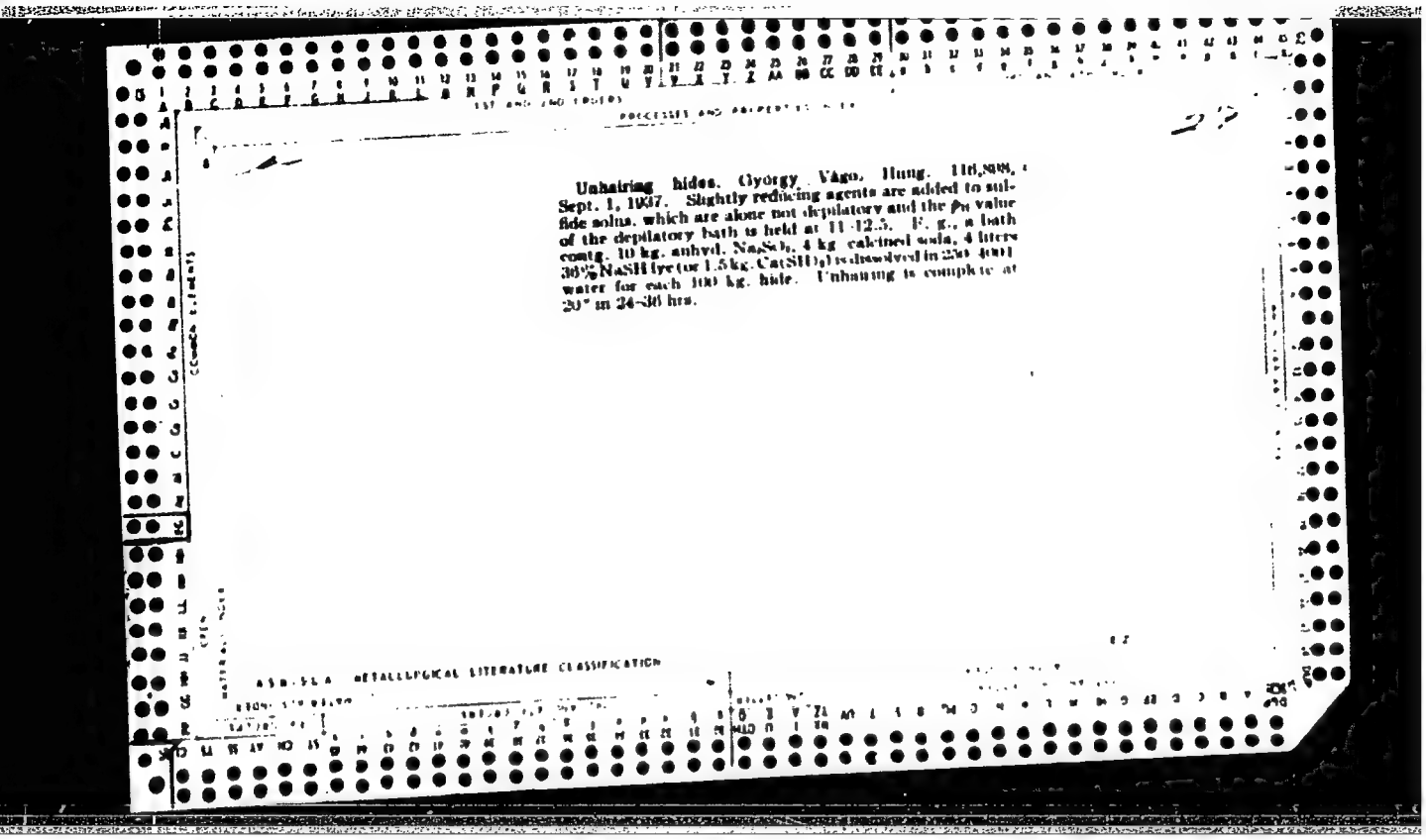
HUNG.

621.9.018.5

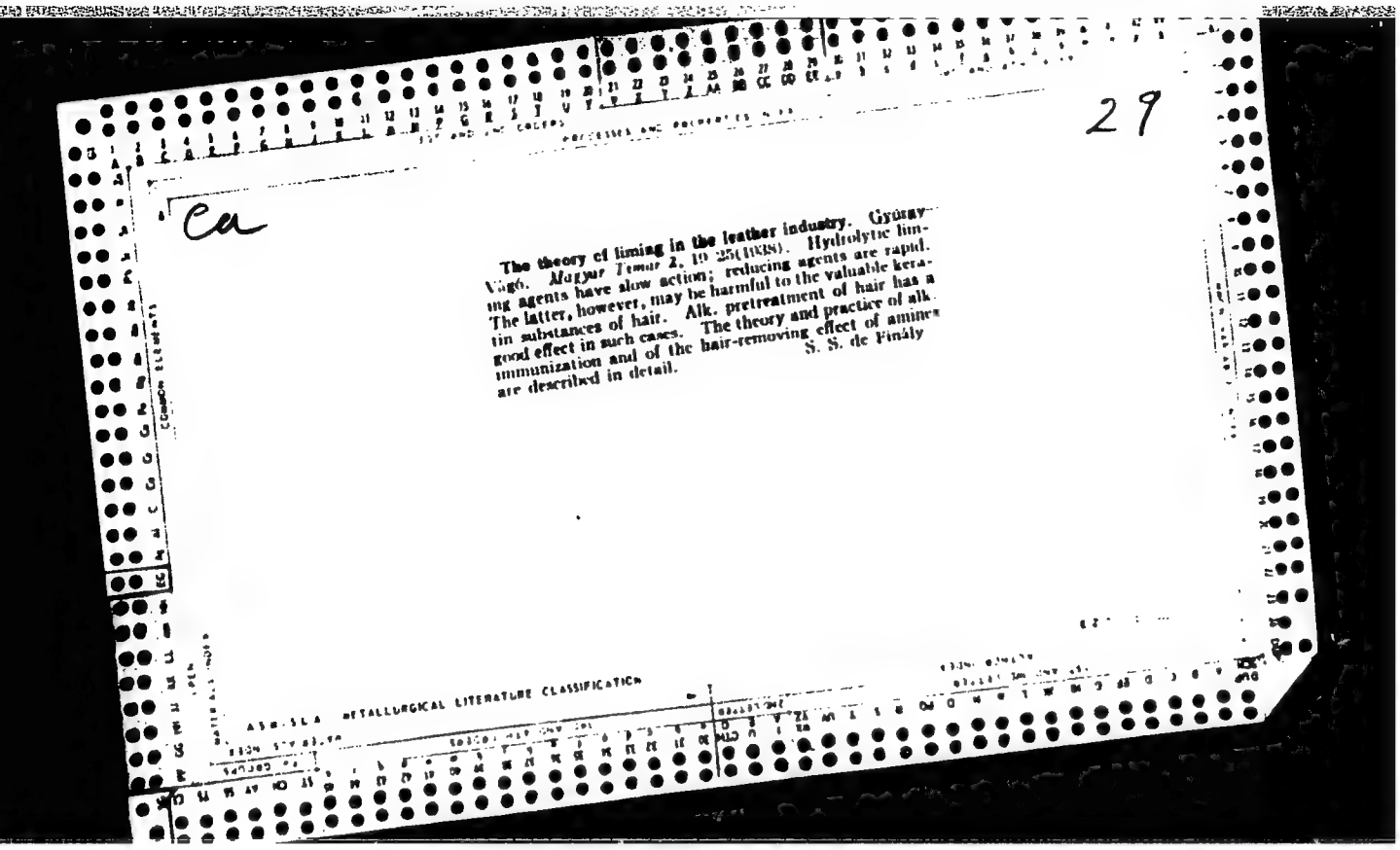
2995. **Theory of electric spark machining and the equipment used.** F. VÁGÓ. *Elektrotechnika*, 48, *No.* 1–2, 21–35 (*Jan.–Feb.* 1955). In Hungarian.

Basic problems of electro-erosion machining are explained and examples of its application are shown in tool-making. Details of control systems are given and the application of the new techniques discussed.

L. CSUBOS



Unhairing hides. Gyorgy Vago. Hung. 116,898, Sept. 1, 1937. Slightly reducing agents are added to sulfide solns. which are alone not depilatory and the p_H value of the depilatory bath is held at 11-12.5. E. g., a bath contg. 10 kg. anhyd. Na_2S, 4 kg. calcined soda, 4 liters 30% NaSH lye (or 1.5 kg. $Ca(SH)_2$) is dissolved in 250-400 l. water for each 100 kg. hide. Unhairing is complete at 20° in 24-36 hrs.



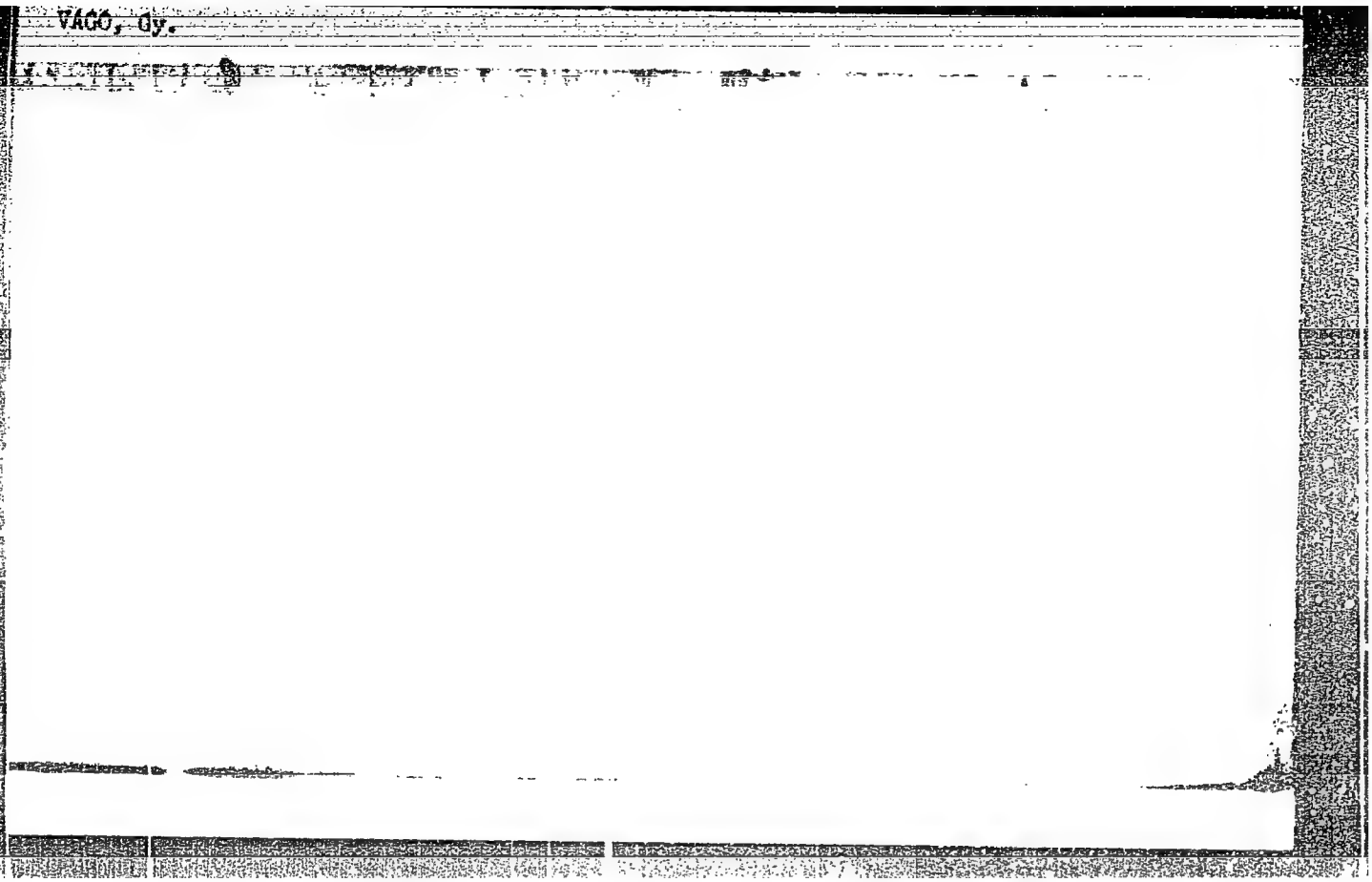
29

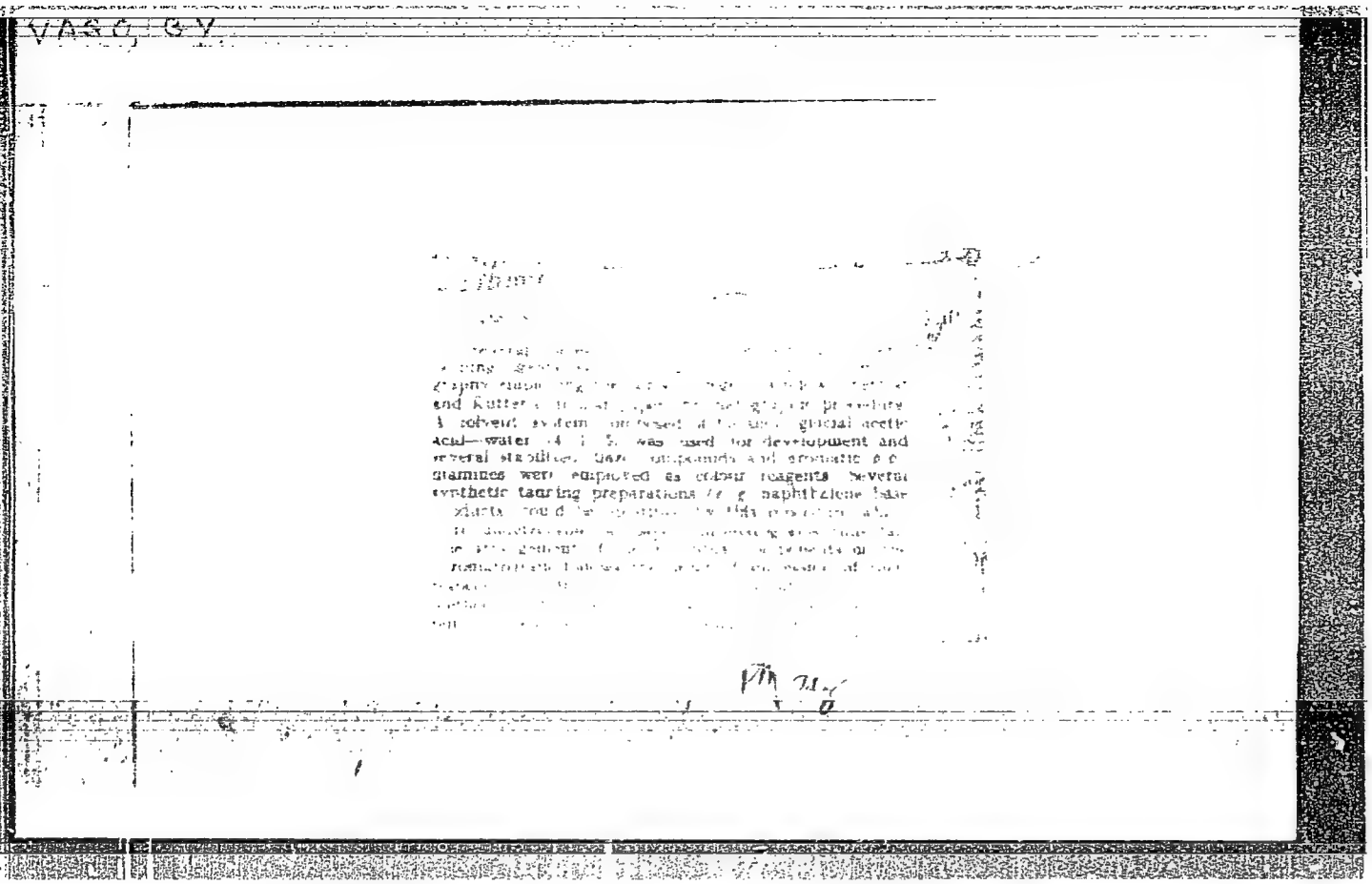
Ca

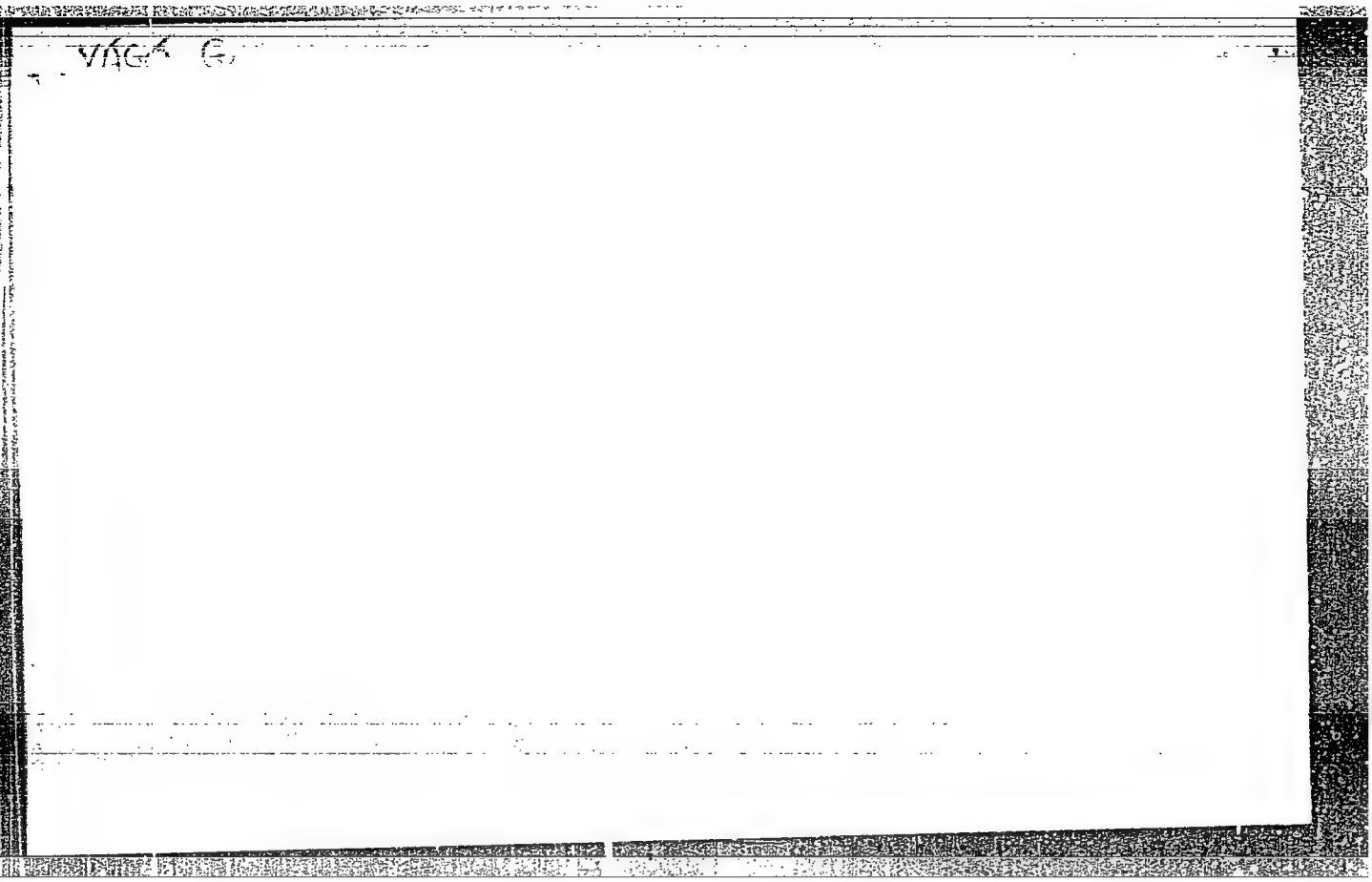
The theory of liming in the leather industry. Gyöngy-Vágó. *Magyar Tenur J.* 19 25(1938). Hydrolytic liming agents have slow action; reducing agents are rapid. The latter, however, may be harmful to the valuable keratin substances of hair. Alk. pretreatment of hair has a good effect in such cases. The theory and practice of alk. immunization and of the hair-removing effect of amines are described in detail.

S. S. de Finály

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION







HUNGARY / Chemical Technology. Chemical Products and H-35
Their Application. Leather. Fur. Gelatin.
Tanning Agents. Industrial Proteins.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 3363.

Author : Vago, G.
Inst : Not given.
Title : Concerning the Article "New Liming Methods".

Orig Pub: Bor es cipotechnika, 1956, 6, No 3, 68-69.

Abstract: See R. Zh. Khim., 1957, 3173.

Card 1/1

VAGO, Gy.

Problems of storing and lixivating sumac; changeability of the tannin of sumac. p. 1. (Bor-Es Cipotechnika, Vol. 7, No. 1, Mar 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 8, Aug 1957. Uncl.

VAGO, GYORGY

H-35

HUNGARY/Chemical Technology, Chemical Products and Their Application, Part 4. - Leather, Furs, Gelatin, Tanning Agents, Industrial Proteins.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34833.

Author : László Radnóti, György Vágó, Kálmán Fekete.
Inst : Not given.
Title : Retanning of Vegetably Tanned Leather Fibers in Leather Board Manufacture.

Orig Pub: Bör- és cipőtechnika, 1957, 7, No 2, 47-50.

Abstract: Waste leather was retanned with Al and Cr salts after the tannides had been removed. For example, a 10 to 15%-ual $Al_2(SO_4)_3$ solution was alkalized with soda to the alkalinity of 25 to 30% at 35 to 40° before the tannage; in order to avoid the formation of Al soap, leather should be washed thoroughly before oiling.

Card : 1/2

16

HUNGARY/Chemical Technology, Chemical Products and Their Application, Part 4. - Leather, Furs, Gelatin, Tanning Agents, Industrial Proteins. H-57

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34833.

An excess of $Al_2(SO_4)_3$ decreases the tensil strength of fibers. Similar results were obtained at the retannage with 1%-ual Cr_2O_3. Considering that the retanned fibers are not strong enough, it is expedient to use them mixed with chrome leather shavings for manufacturing leather board. A treatment of retanned fibers with CH_2O does not alter their mechanical properties, but rises their sweat resistance.

Card : 2/2

VAGO, G.

HUNGARY/Chemical Technology, Chemical Products and Their Application, Part 4. - Leather, Furs, Gelatin, Tanning Agents, Industrial Proteins. H-35

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34831.

Author : György Vago, Laszlo Wiedner.
Inst : Not given.
Title : Tanning with Dicyandiamide Resins.

Orig Pub: Bör-es cipötechn., 1957, 7, No 3, 53-57.

Abstract: A synthetic tanning agent "Plastan", condensation product of dicyandiamide with formaldehide, was prepared. It is soluble in water and contains about 44% of dry substances and about 1.6% of ashes. In the presence of an alkaline catalyst (C), the condensation product congeals in storage; in the case of the reaction with an equivalent amount of hexamethylenetetramine in-

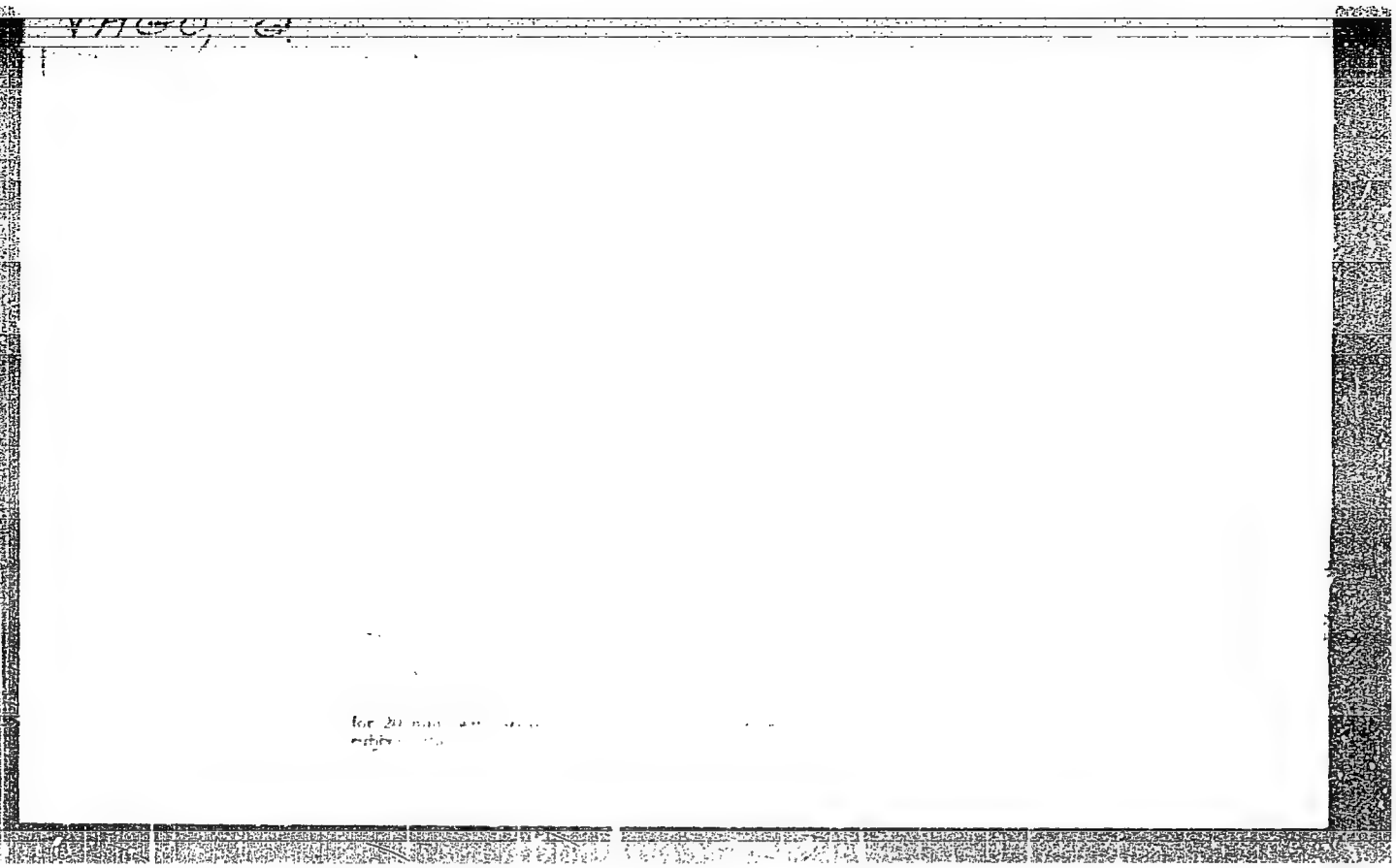
Card : 1/2

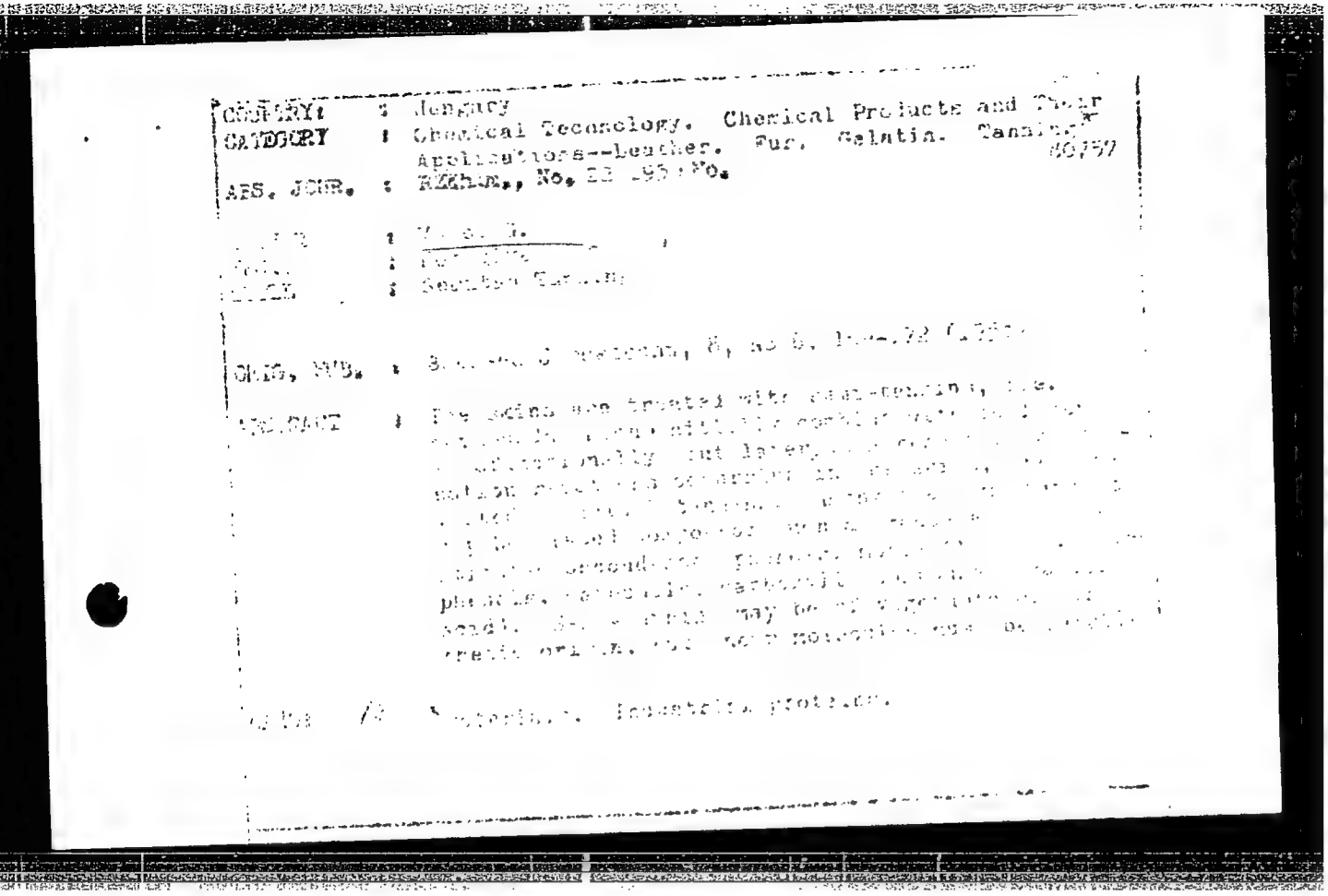
HUNGARY/Chemical Technology, Chemical Products and Their Application, Part 4. - Leather, Furs, Gelatin, Tanning Agents, Industrial Proteins. H-35

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34831.

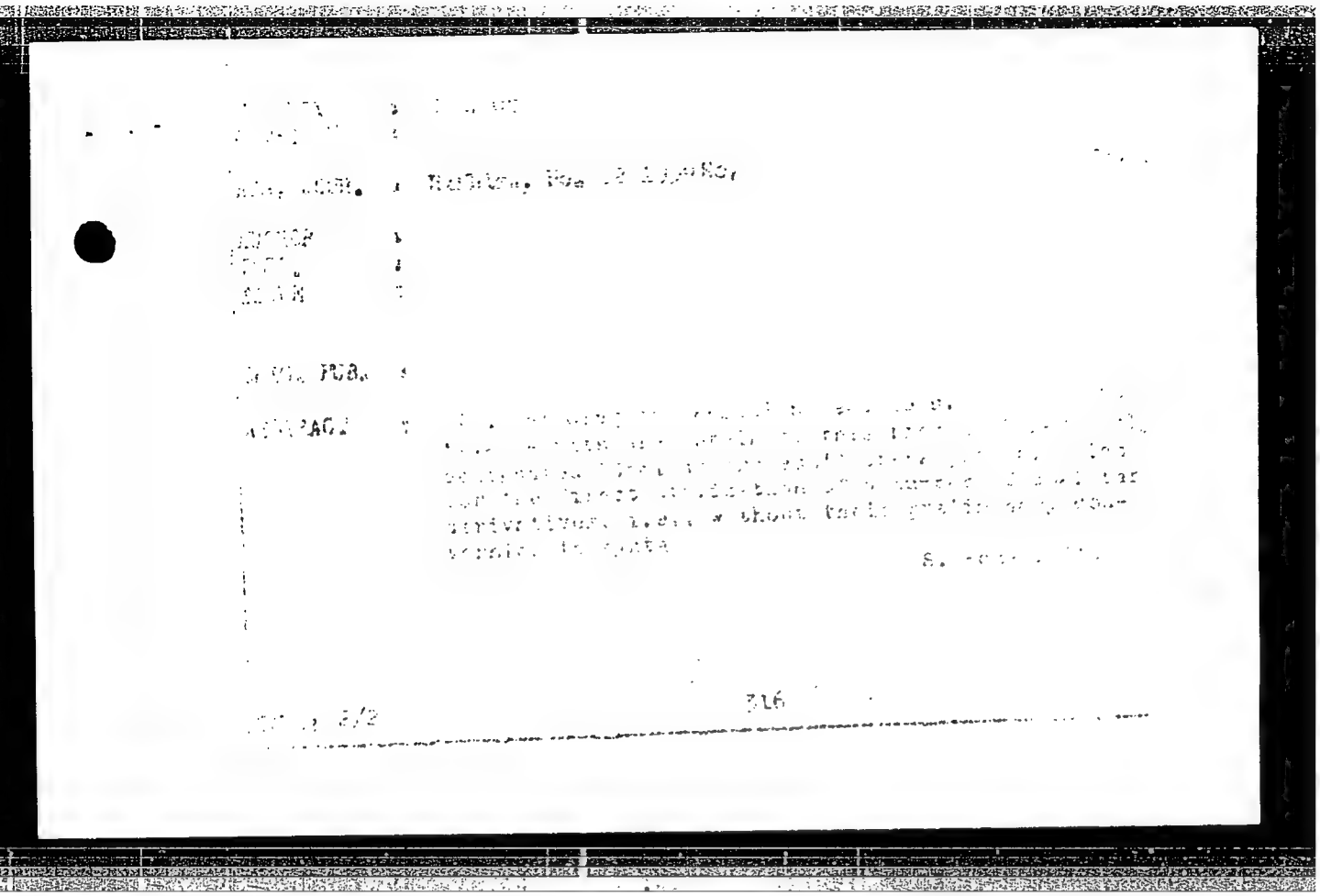
stead of CH_2O + NH_3, sol is preserved 1 year. An increase of CH_2O concentration accelerates the condensation at first, a great excess of CH_2O stabilizes the resin. "Plastan" is similar to the syntan Retingan R6.

Card : 2/2





CATEGORY : Chemical Technology. Chemical Products and Their Applications--Leather. Fur. Gelatin. Tanning. 60759
ABS. JOUR. : RZKhim., No. 23 [illegible] No.
AUTHOR : [illegible]
INST. : [illegible]
TITLE : Southern Tanning
ORIG. PUB. : [illegible]
ABSTRACT : [illegible]



COUNTRY : CZECHOSLOVAKIA
CATEGORY : Chemical Technology. Chemical Products and Their Applications. Leather. Fur. Gelatine*
ABS. JOUR. : RZKhim., No. 23 1959, No. 84520
AUTH. : [illegible]
TITLE : Auto-Oxidation of Vegetable Oils in the Leather Industry
ORIG. PUB. : Kozarstvi, 1959, 9, No 2, 41-44
ABSTRACT : The auto-oxidation of vegetable oils and its [illegible] effect on the quality of top shoe leather were investigated. The spoilage occurs mainly due to lasting of the dried, unfinished and lightly pressed top shoe leather. Suitability of an oil for leather greasing may be controlled by determining its iron content, oxidation number and iodine number. It is recommended that in the greasing of leather, oxidation retardants/inhibitors be employed

CARD: Tanning Materials. Industrial Proteins. 1/2

COUNTRY :
CATEGORY :

AED. JOUR. : R.Zhur., No. 03 1959, No. 84520

AUTHOR :
INST. :
Publ. :

SUBJ, Pub. :

ABSTRACT : together with the exclusion of sunflower oil. If this is not possible, the mild sulfonation of the latter is recommended. Tanning properties of the epoxy-compounds were also studied.
-- M. Luksemburg.

CARD: 2/2

VAGO, GY.; HALASZ, T.

Waterproofing and its agents in the leather industry. (To be contd.) p. 55.

BOR-ES CIPOTECHNIKA. (Boripari Tudomanyos Egyesulet mint a Magyar Tudomanyos Egyesuletek Szovetsege Tagegyesulete) Budapest, Hungary, Vol. 9, No. 2, April 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959. Uncla.

VAGO, GY.

Utilization of sulfite liquors in Hungary. p.146

BOR- ES CELLULOZTECHNIKA (Boripari Tudomanyos Egyesulet mint a Magyar Tudomanyos Egyesuletek Szovetsege Tagegyesulete) Budapest, Hungary
Vol. 9, no.5, Oct.1959

Monthly List of East European Accessions (EEAI) LC., Vol.8, no.12, Dec. 1959
Uncl.

VAGO, GY., RETI, J., VARGA, P.

Autoxidation of vegetable oils in the leather industry. In German, p. 368.

ACTA Chimica. Budapest, Hungary, Vol. 20, No. 4, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb 1960
Uncl.

VAGO, Gyorgy, Dr.; LENART, Anna

A new method for measuring the sludginess of vegetable tanning extracts. Bor cipo 10 no.5:129-134 S '60.

1. Boripari Kutato Intezet.

VAGO, Gyorgy, dr.

Modified protein binding materials. Bor cipo 12 no.5/6:151-155 O '62.

1. Boripari Kutato Intezet.

GEHERNE GLUCKLICH,Judit; VAGO,Gyorgy

Polarographic determination of the monomer ethyl-acrylate contents of ethyl-acrylate- casein mixtures. Magy kem folyoir 68 no.4:181-184 Ap '62

1. Bor- Cipo- es Szormeipari Kutato Intezet, Budapest.

VAGO, Gyorgy, dr.; ERDI, Pal, dr.

Newer method for leather technology in the light of the application of auxiliary materials. Bor cipo 14 no.4:113-117 Ap '66.

1. Research Institute of the Leather Industry (for Vago). 2. Leather Industry Enterprise; Editorial board member, "Bor- es Cipotechnika" (for Erdi).

VAGO, Gyorgy, dr.

Stuffing of leathers dried on plates (press and vacuum-dried).
Bor cipo 14 no.6:165-169 N '64.

L 31456-66 EWP(t)/ETI IJP(c) JD/JG/AT

ACC NR: AP6023098 SOURCE CODE: HU/0031/66/000/002/0041/0043

61
B

AUTHOR: Foti, Erno (Staff scientist); Szucs, Tibor--Syuch, T. (Staff scientist); Vago, Gyorgy (Staff scientist)

ORG: [Foti] Central Research Institute for Physics (Kozponti Fizikai Kutato Intezet); [Szucs, Vago] Research Institute for Communications Technological Industry (Hiradastechnikai Ipari Kutato Intezet)

TITLE: Suspended-drop metal evaporation by electron bombardment

SOURCE: Finommechanika, no. 2, 1966, 41-43

TOPIC TAGS: electron bombardment, niobium, generator, evaporation

ABSTRACT: The suspended-drop technique for metal evaporation by electron bombardment was described. The instruments and operations involved were discussed on the basis of an example involving the evaporation of niobium. The current generator and output stabilization were described in some detail and some special considerations pertaining to the process were outlined. [JPRS]

SUB CODE: 11, 18, 20 / SUBM DATE: none

Card 1/1 UDC

0915 1303

L 11352-67 EWP(k)/EWP(v)/EWP(t)/ETI IJP/JD

ACC NR: AP6032798 SOURCE CODE: HU/0031/66/000/009/0265/0273

AUTHOR: Szucs, T. (Scientific assistant); Vago, G. (Scientific assistant)

ORG: Research Institute for the Communications Technological Industry (Hiradastechnikai Ipari Kutato Intezet)

TITLE: Electron beam welding of thin metal sheets [Paper presented at a Session sponsored jointly by the Technology Department of the Association for Measuring Techniques and Automation, the Association for Acoustics and Film Technology, and the Scientific Association for Communications Technology held on 23 May 1966]

SOURCE: Finommechanika, no. 9, 1966, 265-273

TOPIC TAGS: electron beam welding, metal welding, welding technology, beryllium compound, heat sink

ABSTRACT: The authors review the literature dealing with the electron beam welding of < 1mm thick metal sheets and describe their experiences gained in the welding of beryllium bronze thin films at the Mechanical Measuring Instrument Works (Mechanikai Meromuszerek Gyara). This film is 0.12 mm thick. Satisfactory results were obtained by using the following setup. (Fig. 1) The frame is made of Bz 2 tin-bronze; the configuration illustrated provides for adequate heat sink, a lack of which function had prevented electron-ray welding of this membrane since the large amounts of heat required for the melting of the Bz 2 in the configurations used previously damaged the

Card 1/2

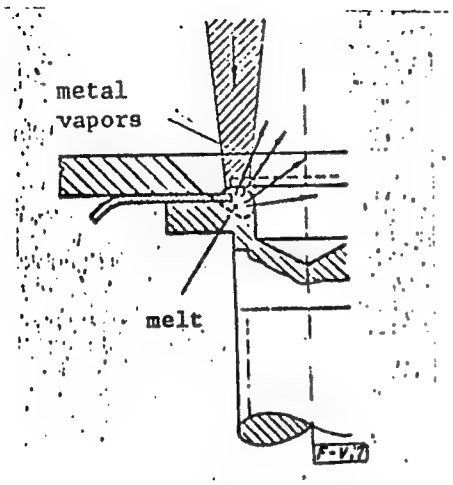


Fig. 1. Welding technology developed for Type C heads.

film edge. The parameters of the welding operations are: acceleration voltage, 25 kV; beam current (in the operating chamber), 6 mA; welding time, 3 sec (one revolution of the jig); amount of heat supplied, 450 Wsec (i.e., 107 cal). Operating hints and means of preventing common errors are presented. The authors thank their associates at the Third Main Department for Physics at the Central Research Institute for Physics (Kozponti Fizikai Kutato Intezet III. Fizikai Foosztalya), primarily Erno Foti, the project leader, for the theoretical and practical assistance given in the experimental work; Katalin Marosvolgyi for her conscientious metallographic and other analytical efforts; and Gyorgy Ispanki for his assistance in the welding and evaluation of the numerous test specimens. Orig. art. has: 2 tables and 18 figures.

SUB CODE: 11/ SUBM DATE: none

13/

VAGO, I. (Budapest XI., Muegyetem rakpart 3); UZSOKY, M. (Budapest XI., Muegyetem rakpart 3)

New method for calculating admittance of disc triodes at small signals. Periodica polytechn electr 5 no.2:107-127 '61.

1. Lehrstuhl fur Theoretische Electrizitatslehre an der Technischen Universitat. Vorgelegt von Prof. Dr. K. Simonyi.

VAGO, I. (Budapest, XI., Muegyetem rakpart 3)

A new high-frequency measuring bridge. Periodica polytechn electr 5 no.4:389-393 '61.

1. Lehrstuhl fur Theoretische Elektrizitatslehre, Technische Universitat, Budapest Vorgelegt von Prof.Dr.K.Simonyi.

VAGO, Istvan

A theory of transmission [illegible] of optimal [illegible] conditions based on electromagnetic field. Mit tech. [illegible] no. 6-101-46, dr '64.

In Hungarian.

VAGO, Istvan (Budapest, XI., Muegyetem rakpart 3)

Calculation of the characteristics of radiating traveling waves with losses in overhead horizontal wire antennas. Periodica polytechn electr 8 no.1:47-63 '64.

1. Kafedra teoreticheskikh osnov elektrotekhniki Budapeshtskogo politekhnicheskogo instituta. Predstavleno zav. kafedroy prof. K. Simonyi.

VAGO, Istvan (Budapest, XI., Muegyetem rakpart 3)

The theory of transmission lines consisting of cylindrical leads on the basis of the electromagnetic field. Periodica polytehcn electr 8 no.3:251-264 '64.

1. Department of Theoretical Electricity of Polytechnical University Budapest. Received Februrary 17, 1964.

VAGO, Janos

Incentive awards and plans for labor productivity increase in the Czechoslovak Socialist Republic. Pt.1. Munka szemle 5 no.3:28-31 Mr '61.

VAGO, Janos

Incentive awards and plans for labor productivity increase in the Czechoslovak Socialist Republic. Pt.3. Munka szemle 5 no.4:28-32 Ap '61.

VAGO, Janos

State of the average wage economy in the iron and metallurgical industry during the year 1963. Munka szemle 8 no. 6: 4-8 Je '64.

KOVALOCZY, Gyorgy; VAGO, Jeno

The Szentes television transmitter. Hir techn 11 no.3:91-96 Je '60.

1. Magyar Posta.